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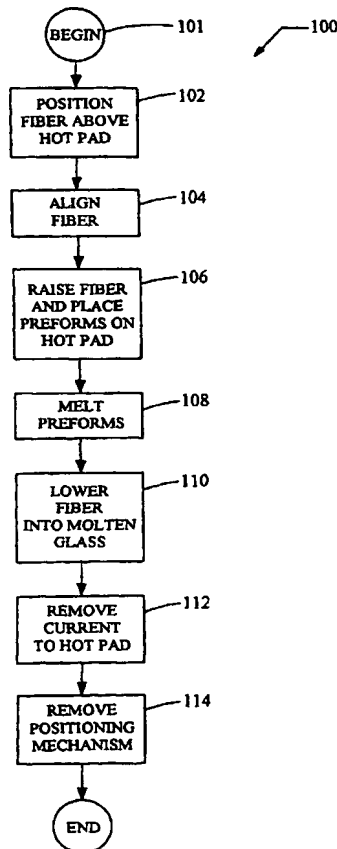
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[Continued on next page]

(54) Title: PRECISION FIBER ATTACHMENT



(57) Abstract: This invention is directed to a fiber attachment including a hot pad (16) and solder glass (18) that attaches an optical fiber (12) to the hot pad (16). The attached is formed by positioning the optical fiber (12) over the hot pad (16) and aligning the optical fiber (12). The optical fiber (12) is then raised and solder glass (18) preforms are positioned on the hot pad (16). Heat is applied to the glass preforms such that they melt. Once the preforms are melted, the optical fiber (12) is lowered into the molten solder glass (18). The current is then removed and the solder glass solidifies as it cools to form an attachment between the optical fiber (12) and the hot pad (16).



SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/39553

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G 02 B 6/00

US CL : 385/137

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 385/88, 90, 137

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
USPTO EAST: search terms = (fiber or fibre) near1 (attach\$4 or bond\$3) near1 (heat\$3 adj element)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, P ---	US 2003/0108304 A1 (ZIARI ET AL.) 12 JUNE 2003 (12.06.03), see entire document.	1-21
A, P		22-27
A	US 5,692,086 A (BERANEK ET AL.) 25 NOVEMBER 1997 (25.11.97), see entire document.	1-27

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"P" document published prior to the international filing date but later than the priority date claimed

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later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

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"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

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